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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,776	07/28/2003	Stuart D. Hellring	1673PI	5340
7590 11/30/2005			EXAMINER	
PPG Industries, Inc.			GOUDREAU, GEORGE A	
Law-Intellectua	al Property 39S			
One PPG Place			ART UNIT	PAPER NUMBER
Pittsburgh, PA 15272			1763	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_			
	10/627,776	HELLRING ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	George A. Goudreau	1763	_			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	I. the mailing date of this communication.  O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 Secondary</u>	eptember 2005.					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-45 is/are pending in the application.						
4a) Of the above claim(s) 27-31 is/are withdraw	4a) Of the above claim(s) <u>27-31</u> is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>36</u> is/are allowed.	5) Claim(s) 36 is/are allowed.					
6) Claim(s) 1,2,6-9,13,23-26,32-35,37-39 and 43-	<u>-45</u> is/are rejected.					
7) Claim(s) <u>3-5,10-12,14-22 and 40-42</u> is/are objection	ected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) All b) Some * c) None of:	- h h					
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents	, ,					
3. Copies of the certified copies of the prior	•	d in this National Stage				
application from the International Bureau  * See the attached detailed Office action for a list		<b>д</b>				
See the attached detailed Office action for a list	GEORGI PRIMAF	COUDMEAU EGOUDMEAU EY EXAMINER				
Attachment(s)	,, <del>[ ]</del> , , , , , -	(770 440)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 6-9, 13, 23-26, 38-39, and 43-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Maloney et. al. (4,443,357).

Maloney et. al. disclose an aqueous slurry comprised of precipitated silica (i.e.-G30 Quso). Each silica particle has the following characteristics:

- -8 OH groups/ nm2;
- -12 NM. diameter; and
- -300 m2/ GM surface area.

The G30 Quso silica may be wet milled to (5-50) NM or (0.005-0.005) microns.

This is discussed specifically in columns 7-8; and discussed in general in columns 1-26.

It is inherent that the H2O in the slurry taught above comprises a type of oxidant. Thus, all of applicant's claimed limitations are fully met in this regard. The examiner cites the case law listed below of interest to applicant in this regard.

In re Swinehart (169 U.S.P.Q. 226 (CCPA)) and In re Best (195 U.S.P.Q. 430 (CCPA) state that when an examiner has reasonable basis for believing that functional characteristics asserted to be critical for establishing novelty in the claimed subject matter may, in fact, be inherent characteristics of the prior art, the examiner possesses the authority to require an applicant to prove that the subject matter shown to be in the prior art does not possess the characteristics relied upon.

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3. Claims 32, 34-35, 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Persello (5,286,478).

Persello discloses precipitated silica with the following characteristics:

- -BET=400 m2/ GM;
- -CTAB=350 m2/ GM;
- -oil uptake of 300 cm3/ 100 GM;
- -1.5 micron mean particles size; and
- -BET/ CTAB ratio= 1.3

Alternatively, Persello disclose precipitated silica with the following characteristics:

- -BET=100 m2/ GM;
- -CTAB=60 m2/ GM;
- -10 micron mean particle size;
- -oil uptake of 100 cm3/ GM; and
- -8 OH groups/ NM2

This is discussed specifically in columns 21-22; and discussed in general in columns 1-24.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over the reference as applied in paragraph 2 above.
  - The reference as applied in paragraph 2 above fail to disclose the following aspects of applicant's claimed invention:
  - -the specific usage of a double jet cell process to reduce the size of the aggregate particles in the slurry

It would have been obvious to one skilled in the art to employ the usage of a double jet cell process to reduce the aggregate size of the silica particles in the slurry taught above in place of the milling processes which are generically taught for reducing the size of the agglomerate silica particles in the slurry taught above based upon the following. The usage of a double jet cell milling process to reduce the aggregate size of silica particles is conventional or at least well known in the colloidal arts. (The examiner takes official notice in this regard.) Further, this simply represents the usage of an

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alternative, and at least equivalent means for conducting the milling process in the process taught above to the specific means, which are taught above.

- 7. Claims 3-5, 10-12, 14-22, and 40-42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claim 36 is allowed.
- 9. Any inquiry concerning this communication should be directed to examiner George A. Goudreau at telephone number (571)-272-1434.

Primary Examiner

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